

ON SOME APPARENTLY NEW *NOTODONTIDAE*

BY LORD ROTHSCCHILD, F.R.S., PH.D.

1. *Spatalia affinis* spec. nov.♀. Similar to *plusiata* Walk., but much darker.

Differs from *plusiata* on the forewings in the colour being deep black-brown **not** chocolate, in the silver  $\mathcal{T}$  and stigmatic grille being larger and farther away and not fusing with pale area of forewing, in the brown apical quadrate patch extending farther back into the pale area, and in the hindwings having the basal two-thirds pale buff and outer one-third only dull brown.

Length of forewing: 30 mm. Expanse: 68 mm.

*Habitat.* Upper Aroa River, British New Guinea, March 1903 (A. S. Meek), 2 ♀♀.

2. *Spatalia indistincta* spec. nov.♀. Nearly related to *laticostalis* Hmps. but paler.

Differs in the pale area of the forewing being less well defined and variegated with small streaks and clouded spots, and there is a pale spot in the dark apical patch; the dark portion of the forewing is paler and clouded with pale violet.—Hindwing is much paler brown.

Length of forewing: 24 mm. Expanse: 56 mm.

*Habitat.* Townsville, North Queensland (Dodd), 1 ♀.

3. *Naprepa fusconubilata* spec. nov.Nearest to *flexifera* Schaus, but has shorter and broader wings.

♂. Forewing much less rufous, the outer one-third obliquely clouded and streaked with greenish grey, the two obliquely vertical white spots above vein 1 absent and replaced by a longitudinal white line on vein 1, the oblique zigzag dark band of forewing less distinct.—Hindwings rufous wood-brown **not** dark rufous chestnut, the white and black ocellate spot above tornus enclosed in a grey irrorated patch, the lighter postmedian line longer and more evenly curved. Thorax dark chocolate *without* whitish tufts.

♀. Similar, but much larger, and has a large whitish tuft on first abdominal segment.

Length of forewing: ♂ 41 mm., ♀ 62 mm. Expanse: ♂ 92 mm., ♀ 136 mm.

*Habitat.* Las Quignas, near San Esteban, Venezuela (S. M. Klages); San Esteban, Venezuela, July 1909 (S. M. Klages) (type, ♂ San Esteban), 2 ♂♂, 1 ♀.

4. *Naprepa adusta* spec. nov.♀. Resembles nothing else in the genus, but nearest to *pulcheria* Druce.

Antennae brown; head, thorax, and abdomen buffish cinnamon, a darker median line on patagia.

Forewing buffish cinnamon suffused with rusty brown, giving the appearance of having been scorched, this burnt appearance being much stronger

on the outer half of the wing; median three-fifths of costal area and for part of cell creamy greyish buff; a sinuate postmedian line of black dots and a black dot under base of vein 2; lobe of inner margin hardly produced; in outer two-thirds of wing are a number of dark striae reaching from apex of cell and median nervure to termen.—Hindwing buffish cinnamon, a postmedian sinuate band consisting of an inner portion darker than rest of wing and an outer one paler; a brownish patch at tornus and traces of dark half-moons along margin.

Length of forewing: 40 mm. Expanse: 87 mm.

*Habitat.* Tinguri, Carabaya, South-east Peru, 3,400 ft., August 1904 (G. Oekenden), 1 ♀.

#### 5. *Antiora affinis* spec. nov.

♂. Differs from *A. subrufula* Walk. in the wings being shorter and broader. The forewings appear darker and more maroon, owing to the reduction of the grey irroration; the white stigma and postmedian transverse band are **absent**; between veins 2 and 4 is a postmedian ill-defined cloudy whitish patch.

The hindwings differ in being quite black and having a median cloudy whitish patch.

Below entirely black, and the cloudy whitish patches on fore- and hindwings much more sharply defined and whiter.

Length of forewing: 19 mm. Expanse: 43 mm.

*Habitat* ?.

#### 6a. *Cargida pyrrrha intensa* subsp. nov.

Differs from *pyrrha pyrrrha* in being much darker and in the pattern being much more strongly marked.

*Habitat.* Nogales, Arizona, July 1903 (Osler), 4 ♂♂, 1 ♀.

#### 7. *Nystalea nigriplaga* spec. nov.

♀. Nearest to *idonea* Walk.

Antennae dark brown; frons and palpi wood-buff, vertex sooty grey; the two tufts at base of antennae, the tegulae, and patagia sooty blackish grey edged with buffish, the rest of thorax and abdomen dark wood-grey slightly variegated with buff.

Forewing dark blackish wood-brown variegated all over with buffish and rusty brown-buff, which on costa consists of bent streaks in basal three-fifths and of square dots on outer one-fifth. A black round velvety stigma ringed with buffish on lower corner of discocellulars with a dark rufous spot above it and a dull sooty black quadrate spot behind it; an oblong sooty black patch extends obliquely from end of cell to termen, in this patch is an oblique buff streak and some indications of buffish dots; a row of black chevrons on margin and fringe of termen.—Hindwings sooty black-brown; basal half suffused with buff; fringe and abdominal margin buff.

Length of forewing: 42 mm. Expanse: 92 mm.

*Habitat.* La Oroya, Rio Inambari, South-east Peru, 3,100 ft., December 1905 (G. Oekenden), 1 ♀ type; 1 ♀ Santo Domingo, Carabaya, 6,500 ft., December 1902 (G. Oekenden).

8. *Nystalea cossoides* spec. nov.

♂. Nearest to *guzmani* Schaus.

Antennae black-brown; head and tegulae deep chestnut; thorax silvery grey and deep chestnut mixed with a pale chestnut tuft on hind edge; abdomen dark wood-brown, last segment and anal tuft cinnamon.

Forewing clouded mouse-grey, the central three-fifths suffused with brown, a basal chestnut patch on upper half of wing; a convex curved double transverse line, inwardly dull chestnut, outwardly black, a similar double sinuous postmedian line, but with the inner part black and outer chestnut: in between these two transverse bands are a number of short and irregular black hair-lines and rings, and some grey patches in the browner ground-colour; some black subapical hair-streaks and a black crenulated terminal line.—Hindwing: basal two-thirds greyish, somewhat thinly scaled and hyaline, outer one-third sooty black-brown, fringe white.

Length of forewing: 23 mm. Expanse: 52 mm.

*Habitat.* Santo Domingo, Carabaya, South-east Peru, 6,000 ft. (G. Ockenden), 1 ♂.

9. *Nystalea zeuzeroides* spec. nov.

♂. Nearest to *discalis* Schaus.

Antennae dark brown; palpi buff at the upturned third joint, rest streaked grey and chestnut; head, antennal tuft, and tegulae deep bright chestnut; basal half of patagia roan-grey, rest of patagia and thorax bright maroon-brown; abdomen brown with mauve tinge.

Forewing silvery mouse-grey variegated with a large number of sinuate and zigzag transverse lines of different widths of bright brown, wood-brown or whitish; at end of cell is a stigma of dark grey surrounded by a brown line, a postdiscal dark brown streak on subcostal.—Hindwings dark brown, basal two-thirds variegated with some buffish clouding.

Length of forewing: 29 mm. Expanse: 66 mm.

*Habitat:* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 6 ♂♂.

10. *Nystalea ocellata* spec. nov.

♂ ♀. Antennae brown serrated with pale rusty teeth; head yellowish cinnamon rufous; antennal tufts short, some colour; tegulae and base of patagia cinnamon rufous, some of the hairs tipped with violaceous grey; rest of patagia and thorax violaceous brown tipped with grey and mauve; abdomen wood grey-brown, a chestnut tuft on first segment.

Forewing liver-brown with a series of streaks on costa, some chestnut, others brown, buff, or mauve, and some darker and paler transverse crenulate shadow-lines on basal half of wing; a median basal black spot and a similar larger one on vein 1; beyond the cell is a broad band from costa to median vein, the inner half of this band is half rufous, half black, the outer half rufous with two marginal silvery-mauve lines and between these lines powdered with silvery mauve; this band is followed by three or four crenulate angled dark lines variegated with streaks and freckles of silvery mauve and blue; a subapical velvety black spot surrounded by a buff and speckled area giving somewhat the effect of an ocellus; a submarginal row of slate-blue somewhat ocellated dots.

—Hindwing: basal half dirty buff suffused with earth-brown, outer half earth-brown.

Length of forewing: 21–25 mm. Expanse: 47–56 mm.

*Habitat.* La Oroya, Rio Inambari, South-east Peru, 3,100 ft., December 1905 (G. Ockenden), 5 ♂♂, type; Rio Demerara, British Guiana, 1 ♂, 1 ♀.

#### 11. *Bardaxima molossus* spec. nov.

♂. Antennae brown; palpi, head, tegulae, and centre of thorax dark chocolate-brown; a small tuft of buffy-yellow hair below antennae; patagia very large olive-grey, pale grey at base; abdomen wood-brown.

Forewing: basal two-fifths greyish wood-brown densely strigillated and suffused with darker brown; a median slightly curved double black-brown transverse line, two blackish dots in median fold in basal one-fifth; outer three-fifths wood-grey strigillated with yellowish brown and dark brown; the striae in some places so arranged as to form transverse bands more or less distinct; outer one-fifth of costa with double excision; a large chestnut subapical patch. —Hindwing greyish wood-brown, fringe buff.

Length of forewing: 31 mm. Expanse: 73 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 1 ♂.

#### 12. *Bardaxima castaneobrunnea* spec. nov.

♂. Antennae red-brown; head and thorax deep chocolate-rufous; abdomen similar but washed with black.

Forewing bright rufous chocolate, suffused here and there with purplish mauve; a number of erenulate streaks and spots more or less indistinct rufous cinnamon; a rufous cinnamon stigma at apex of cell containing two black lunules; a large round ocellate subapical patch blackish chocolate. —Hindwings blackish chocolate-brown.

Length of forewing: 20 mm. Expanse: 46 mm.

*Habitat.* Rio Demerara, British Guiana, 2 ♂♂.

#### 13. *Eragisa basifera* spec. nov.

♂. Antennae brown; head and thorax mossy green-grey; abdomen mouse-grey suffused with pinkish cinnamon.

Forewing mossy green-grey, a dull chestnut broad subbasal transverse band edged outwardly by a triple black line, the outermost line being interrupted; postmedian and submarginal lines of white spots. —Hindwing cream-buff; abdominal area brownish buff; termen and tornus suffused with cinnamon.

Length of forewing: 23 mm. Expanse: 52 mm.

*Habitat.* Potaro, British Guiana, February–June 1908 (S. M. Klages), 6 ♂♂; Aroewarwa Creek, Maroewym Valley, Surinam, May 1905 (S. M. Klages), 2 ♂♂; La Union, Rio Huacamayo, Carabaya, South-east Peru, 2,000 ft., December 1904 (G. Ockenden), 3 ♂♂. Type, Potaro.

#### 13x. *Eragisa tenebrosa* spec. nov.

♂. Antennae strongly pectinated sooty black; head deep blackish chocolate; thorax blackish chocolate mixed with rufous chocolate; abdomen dirty brown-buff at base and on sides of first four segments.

Forewing deep blackish chocolate suffused with a slaty purple bloom from a dusting of bluish scales, a number of more or less distinct transverse crenulate and wavy lines of black spots and lunules; a buff stigma outlined in black. —Hindwing sooty brown, basal one-third and abdominal area suffused and mixed with buff; a rusty buff broken line in fringe.

Length of forewing: 33 mm. Expanse: 75 mm.

*Habitat.* Chiriqui, Panama, 1 ♂.

14a. *Crinodes striolata fuscipennis* subsp. nov.

♂♀. Differ from *striolata striolata* from Brazil in their darker duller forewings and in the hindwings being uniform grey-brown, **not** variegated with buff.

*Habitat.* Venezuela and Costa Rica and Peru (type ♂, Tinguri, Carabaya, South-east Peru, August 1904, G. Oekenden), 10 specimens.

14b. *Crinodes striolata insularis* subsp. nov.

♂♀. Differ from *striolata striolata* in being suffused with dark brownish cinnamon which gives it a washed-out appearance.

*Habitat.* Trinidad, 10 specimens.

15. *Crinodes schausi* spec. nov.

Mr. W. Schaus was the first to point out that the insect figured by Huebner as the ♀ of his *beskei* was a distinct species which he named *striolata* but Mr. Schaus lumped together under the name of *striolata* specimens with striolated forewings and without; considering the non-striolated ♀♀ to be the ♀♀ of his *striolata*. However, I have a big series of the non-striolated form containing both ♂♂ and ♀♀, and I consider it a good species.

♂♀. Differ from *ritsimae* in the rufous chocolate **not** sooty black-brown colour, in the long narrow **not** short kidney-shaped stigma and which is **not** buff, in the more striated baso-costal region of forewing, and in the longer and narrower pale wedge on inner margin.

*Habitat.* Mexico and Costa Rica, 57 specimens.

16a. *Lepasta bractea gigantea* subsp. nov.

♂♀. Much larger than *bractea bractea*, and much more sooty grey without any trace of cinnamon.

Length of forewing, *bractea bractea*, ♂ 19 mm., ♀ 21 mm.; expanse, ♂ 43 mm., ♀ 47 mm.

Length of forewing, *bractea gigantea*, ♂ 26 mm., ♀ 26 mm.; expanse, ♂ 58 mm., ♀ 58 mm.

*Habitat.* Santo Domingo, Carabaya, 6,500 ft., December 1902 (G. Oekenden), 1 ♀ (type); La Union, Rio Huacamayo, 2,000 ft., November 1904 (G. Oekenden), 1 ♂.

17. *Tachida cossula* spec. nov.

♂♀. Antennae brown; head and tegulae dark cinnamon suffused with sooty grey; rest of thorax variegated with various shades of grey.

Forewing mauve-grey clouded with various band-like suffusions of brown

and grey; an indistinct subbasal band black and rufous; a double crenulate antemedian band inwardly buffish, outwardly black; a pale stigma with dark grey centre, a heavy velvety black postmedian band slightly angled or rather projecting at vein 3; beyond this an indistinct sinuate crenulate and interrupted line, and a black terminal hair-line.—Hindwings dirty white, buffish on abdominal area, a brown marginal line somewhat spreading into wing.

Length of forewing: 20 mm. Expanse: 46 mm.

*Habitat.* Buenavista, East Bolivia, 750 m. = 2,438 ft., August 1906—April 1907 (J. Steinbach), 2 ♀♀; Santo Antonio do Javary, Upper Amazons, June 1907 (S. M. Klages), 6 ♂♂. (These ♂♂ have much less conspicuous antemedian bands, but are not fresh.)

18. *Dyasia stigmatica* spec. nov.

♂. Antennae orange-brown; head, thorax, and abdomen purplish sooty black-brown.

Forewing purplish sooty brown; basal one-third with scattered rusty striae joined to velvety black ditto; these on the outer edge of this part of wing conglomerated to form a rather ill-defined broad antemedian rufous band containing black spots; outer two-thirds with hardly any of these striae, an oblique postmedian line of rufous spots with black centres; a large subapical rust-red patch like a brand in the centre of which is a broad brown-black band.—Hindwings dirty white; costal and abdominal areas dirty grey; termen greyish.

Length of forewing: 25 mm. Expanse: 57 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 1 ♂.

19. *Dyasia melanoleuca* spec. nov.

♂. Antennae brown; head purplish blackish chocolate; thorax dirty white; abdomen brownish buffy grey; basal segment whitish; anal tuft buff.

Forewing purplish sooty black-brown, paler on outer one-third; basal one-seventh obliquely pure white; dark portion of basal two-thirds of wing crossed by a lot of very indistinct crenulate lines of dots, a more distinct postmedian double curved band of such spots; costa spotted with dark spots, two larger round black subapical spots obliquely placed; a black spot above vein 2.—Hindwing: abdominal two-thirds white, costo-terminal one-third dirty sooty brown.

Length of forewing: 15 mm. Expanse: 34 mm.

*Habitat.* St. Jean de Maroni, French Guiana, 3 ♂♂.

20. *Dyasia punctata* spec. nov.

♂. Antennae brown; head and thorax cinnamon-brown; abdomen yellowish wood-grey; a black round spot on anal segment.

Forewing mauve pinkish cinnamon clouded with band-like cloudings of brown and with numerous streaks and specklings; a round black subbasal spot in median fold, a blurred blackish broad antemedian black-brown band followed by a somewhat curved line of different-sized black spots; a postmedian line of black spots; two large subapical black spots and one about vein 3.—Hindwing wood-brown, basal two-thirds washed with buff; fringe buff.

Length of forewing: 26 mm. Expanse: 59 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 1 ♂.

21. *Lirimiris guatemalensis* spec. nov.

♂ ♀. Differs from *truncata* Herr.-Sch. in having the head and tegulae dark brown like the thorax, the antennae much darker, and the pectinations longer, and in the pale costal two-fifths of the forewing being white **not** yellow.

Length of forewing: ♂ 35 mm., ♀ 37 mm. Expanse: ♂ 77 mm., ♀ 81 mm.

*Habitat.* Ciudad de Guatemala (Rodriguez), 2 ♂♂, 1 ♀.

22. *Lirimiris chimaera* spec. nov.

♂. Allied to *truncata*, but at once distinguished by its very long, narrow, and strongly curved forewings.

Antennae chestnut rufous with enormously long pectinations; head and tegulae cream-buff; rest of thorax deep chocolate-brown with an olive tinge on patagia; abdomen sooty brown-grey, segments 5 and 6 paler.

Forewing strongly curved and very narrow; costal two-fifths cream-buff, a streak in cell along median, outer one-third of costal area, a band below it, and a subterminal band rust-red; a few scattered rust-red scales in cream-buff area; rest of wing chocolate-brown washed with olive.—Hindwing dull white tinged strongly on nervures and on abdominal area with dirty grey, margin and tornus rusty brown.

Length of forewing: 49 mm.; breadth at lobe: 13 mm.; breadth at tornus: 13 mm. Expanse: 108 mm.

*Habitat.* Santo Domingo, Carabaya, July 1902, 6,000 ft. (G. Ockenden), 1 ♂.

23. *Lirimiris lemoulti* spec. nov.

Allied to *meridionalis* Schaus, but much smaller and darker.

♂. Antennae deep brown heavily pectinated; head darker-buff; thorax olive wood-brown; tegulae sprinkled with buffish grey; abdomen dark wood-brown.

Forewing deep wood-brown grained and striated similar to wood; basal one-sixth much paler and with two chevron-like double marks, a large irregular stigma outlined with white, an irregular ill-defined postmedian double row of evanescent dusky spots, some black and white streaks on inner margin, an oblique ill-defined pale patch from costa to antemarginal white line divided in middle by dark streak, an antemarginal curved and minute white line followed by two white and black crenulate submarginal hair-lines.—Hindwing sooty brown, a postmedian pale band indicated and a series of pale and black bands round and on tornus.

Length of forewing: 25–26 mm. Expanse: 56–58 mm.

*Habitat.* St. Jean de Maroni, French Guiana.

[*Lirimiris elongata* Schaus and *L. euribya* (Druce).]

Mr. Schaus has united these two insects as the same species, but they are really two very distinct species. *L. euribya* is much smaller and has the costa much straighter, *i.e.* much less convex. The basal two-thirds of the forewings are orange-cinnamon and the outer one-third cinnamon-buff, while in *elongata* the basal half of the forewing is greyish wood-brown, the outer half being wood-

grey with a buffish tinge. Moreover, within the last two years both species have been bred by the Rev. Miles Moss at Para, and the larvae are totally different and feed on quite different trees.

Length of forewing, <i>elongata</i> , ♂	38-45 mm.	Expanse, 83-98 mm.
"    " <i>euribya</i> , ♂	28-36 mm.	Expanse, 62-78 mm.
"    " <i>elongata</i> , ♀	48-58 mm.	Expanse, 105-127 mm.]

23 *bis a*. *Lirimiris elongata postpallida* subsp. nov.

♂. Differs from *elongata elongata* from Peru in its almost white hindwings, and the forewings being less grey, more suffused with pale buff.

*Habitat*. Costa Rica, Tuis (W. Sehaus).

23 *bis b*. *Lirimiris elongata orientalis* subsp. nov.

♂. Differs from *e. elongata* in having the forewings suffused with brownish buff, and the hindwings, although dark brown as in *e. elongata*, also show a more yellowish tone.

*Habitat*. Potaro, British Guiana, February 1908 (S. M. Klages); Omai, British Guiana; British Guiana bought at Georgetown (Rev. Mr. Whitford) (type); St. Jean de Maroni, French Guiana; Fonte Boa, Upper Amazons, September 1906 (S. M. Klages). 9 specimens in all.

24. *Lirimiris mirabilis* spec. nov.

♂. Antennae strongly pectinated amber-brown; head and thorax buff; abdomen sooty grey-black; last segment and anal tuft grey.

Forewing: basal two-fifths buff with some slightly darker marks; a large cream-white round spot in a larger olive-brown patch at end of cell, from which runs a broad cream band towards apex; outer four-fifths of costa sooty black, extending into the wing beyond cell as low as base of vein 5 and then narrowing again towards apex, a subapical chocolate patch, rest of wing buff shaded somewhat with brown, a postmedian doubly zigzag line somewhat faint and shadowy; between veins 4 and 6 some irregular pale rufous-brown patches and a marginal band of pale rufous from vein 4 to vein 1; wing strongly excised between veins 4 and 1; along outer half of vein 1 wing is sooty grey.—Hindwing white.

♀. Similar but paler; forewing less excised between veins 1 and 4; margin of hindwing slightly rufous.

Length of forewing: 37 mm. Expanse: 81 mm.

*Habitat*. Pozuzu, Peru, 900 m. = 2,925 ft. (W. Hoffmann), 1 ♂ (type); Valencia, Venezuela, 1 ♀.

25. *Arhacia postbrunnea* spec. nov.

♂. Antennae shaft dark brown, pectinations paler; palpi chocolate; head olive-buff; thorax olive-buff striped with pale brown, and tegulae ringed with chocolate; abdomen sooty black-brown, anal tuft edged and suffused with paler brown.

Forewing olive-buff with a chocolate border all round except on basal one-sixth of costa; a yellow-buff stigma with two darker lines in it, a brown smear

in median fold and various streaks and smears of darker and paler olive-buff on disc; an indistinct zigzag postdiscal brownish line and in the chocolate border along termen are two pinkish submarginal hair-lines and a broader buff line along inner side of terminal portion of chocolate border.—Hindwing sooty black-brown; basal two-thirds of costal, one-third of wing and abdominal area suffused with olive-buff; two pinkish lines at tornus.

Length of forewing: 25 mm. Expanse: 56 mm.

*Habitat.* St. Jean de Maroni, French Guiana.

#### 26. *Drugera pallidiflava* spec. nov.

♀. Antennae pale brown; head and thorax rusty buff mixed with grey and brown hairs; abdomen yellowish wood-grey, an orange patch on second segment.

Forewing shining buff; base olive-brown, an oblique rather indistinct antemedian olive-rufous band and curved concave broad postmedian similar band; three anteapical rufous-chocolate spots on costa, which is washed with rusty rufous; a rufous interrupted antemarginal line, outer margin strongly convex.—Hindwing buff suffused with mauve or purplish brown.

Length of forewing: 22 mm. Expanse: 49 mm.

*Habitat.* La Oroya, Rio Inambari, South-east Peru, January 1906, 3,100 ft. (G. Ockenden).

#### 27. *Drugera muscosa* spec. nov.

♂. Antennae amber-brown serrated deeply on one side, one-fourth from base is a large comblike structure consisting of prolonged and widened teeth, first joint very long, rest of antennae attached to first joint by a flat tongue on underside only; head and thorax dark chocolate-brown washed with olive-green; abdomen cinnamon chocolate-brown.

Forewing blackish moss-green, with subbasal, antemedian, median, three postmedian, and submarginal irregular lines of lighter and darker coalescent half-moons, the submarginal row is greyish white inside.—Hindwings cinnamon chocolate-brown.

Length of forewing: 27-29 mm. Expanse: 61-65 mm.

*Habitat.* Maraval, Trinidad, July 1891 (type); Calama, Rio Madeira (W. Hoffmanns).

#### 28. *Psilacron sericeus* spec. nov.

♂. Antennae strongly pectinated, decreasing regularly to the apex, rufous, shaft buff; head and thorax very shaggy, cinnamon-chocolate much mixed with buff and greenish hairs; abdomen chocolate-cinnamon, anal tuft buff.

Forewing bright buff clouded with greyish and cinnamon, giving it a greenish olivaceous tinge; costal area chocolate-cinnamon much shaded with buff, a basal chocolate line, a double antemedian band, upper half thick and chocolate, lower half thin and grey; a somewhat ill-defined and hazy large wedge-shaped patch of chocolate suffused with buff occupies the costal three-fifths of disc of wing, within which is a large double buff stigma; the forewing has a strong satiny lustre and is very thickly scaled.—Hindwing chocolate-cinnamon.

Length of forewing: 22 mm. Expanse: 51 mm.

*Habitat.* 4 Huancabamba, Cerro de Pasco, Peru (E. Böttger) (type); 1 Oconeque, Carabaya, 7,000 ft., South-east Peru, July 1904 (G. Ockenden).

### 29. *Psilacron divisa* spec. nov.

♂. Antennae rufous; head and thorax rufous cinnamon-chestnut; abdomen black-brown, anal tuft dull rufous.

Forewing chestnut cinnamon-rufous; costa with oblique darker streaks, a number of ante- and postmedian lines of darker coalescent lunules, a small black stigmatic spot, and a yellowish streak beyond cell.—Hindwings black-brown.

Length of forewing: 16 mm. Expanse: 36 mm.

*Habitat.* 1 Fonte Boa, Upper Amazons, May 1906 (S. M. Klages) (type); 1 La Union, Rio Huacamayo, South-east Peru, 2,000 ft., November 1904 (G. Ockenden).

### 30. *Notoplusia distinguenda* spec. nov.

♂. Antennae brown; head and thorax pale mauve suffused with red; abdomen mauve-brown with an upright deep red tuft on first segment, and on second and third segments similar mauve-brown tufts tipped or sprinkled with red; anal tuft large mauve-brown tipped with dark brown.

Forewing: basal half obliquely dull brown tinged with mauve, with indistinct lines of darker streaks, and a large dumbbell-shaped patch of apple-green; outer half cinnamon-mauve, an irregular submarginal band of maroon-red spots, forked in upper half, one patch on inner fork very large; termen maroon-red.—Hindwings: basal half pale wood-grey, outer half darker brownish grey.

♀ larger with hindwing all dark grey.

Length of forewing: ♂ 22 mm., ♀ 26 mm. Expanse: ♂ 48 mm., ♀ 57 mm.

*Habitat.* 2 ♂♂, 1 ♀, Fonte Boa, Upper Amazons, October 1906 (S. M. Klages); 1 ♂, 1 ♀, Santo Antonio do Javary, Upper Amazons, May 1907 (S. M. Klages); 1 ♂, Allianca below San Antonio, Rio Madeira, November 1907 (W. Hoffmanns) (type); 1 ♂, St. Jean de Maroni, French Guiana.

### 31. *Trichomoplata dimorpha* spec. nov.

♂. Antennae amber-brown; head, thorax, and abdomen dirty greyish buff.

Forewing semihyaline dirty white; basal three-fourths of costal area and basal half of wing more heavily scaled, dirty yellowish grey clouded, and also similar though much fainter cloudings at apex and along subterminal area, a large rusty orange patch on basal half of vein 2.—Hindwing semihyaline white; costal and abdominal areas dirty pale yellowish grey.

♀. Much larger; antennae rufous cinnamon; head and thorax buffish cinnamon; abdomen darker.

Forewing buffish cinnamon with indistinct darker lines and streaks, central part of disc beyond middle semihyaline whitish with bands and streaks of cinnamon; on vein 2 is a large blood-red patch and obliquely below it one of rusty brown, a submarginal curved double hair-line white and deep rufous.—Hind-

wing semihyaline whitish, more or less thickly clothed with rusty cinnamon hairs especially on abdominal and costal regions.

Length of forewing: ♂ 22 mm., ♀ 29 mm. Expanse: ♂ 50 mm., ♀ 67 mm.

*Habitat.* 3 ♂♂, 6 ♀♀, Fonte Boa, Upper Amazons, May 1906 (S. M. Klages) (♀ type).

### 32. *Trichomoplata stigmatica* spec. nov.

♂. Antennae amber-yellow; head dark buff; thorax and abdomen rusty cinnamon.

Forewing rusty cinnamon, disc beyond middle semihyaline, basal one-third of wing washed with pale brown in type and with blackish in second specimen; at apex of cell a veniform black stigma with buff centre and an orange spot outside it distad; a large rufous orange patch on vein 2.—Hindwing semihyaline white; costal and abdominal areas densely clothed with cinnamon-buff hairs.

Length of forewing: 20 mm. Expanse: 46 mm.

*Habitat.* 2 ♂♂, Fonte Boa, Upper Amazons, May 1906 (S. M. Klages).

### 33. *Stauropus nitidus* spec. nov.

♂. Antennae amber-brown; head and thorax yellowish golden bronze; abdomen brownish cinnamon.

Forewing deep rufous chocolate densely powdered with metallic green; a subbasal spot and an angulated streak below median white, a white irregular discoellular patch; a postmedian band of white lunules angled outwards and a postdiscal green band angled inwards meet between veins 3 and 4 and form a cross (×), the inner, upper, and lower arms being formed by the band of white lunules and the outer by the green band.—Hindwing: basal three-fifths pale cinnamon clothed with yellowish hairs, outer two-fifths darker cinnamon.

♀. Similar, but the metallic green powdering much denser, and in consequence the insect appears almost green.

Length of forewing: ♂ 22 mm., ♀ 24 mm. Expanse: ♂ 49 mm., ♀ 53 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., January–February 1911 (A. S. Meek), 7 ♂♂, 2 ♀♀.

### 34. *Stauropus flavicollis* spec. nov.

♂♀. Antennae brown; head and tegulae buffish yellow, base of tegulae white; rest of thorax chocolate-purple, most of the hairs with small white tips; abdomen clayey wood-brown.

Forewing chocolate-purple powdered with white scales, the absence of these white scales in places causes the wing to appear banded with sinuous and zigzag dark transverse lines; along costa patches of metallic apple-green, some similar green scales near centre of disc, three postdiscal green lunate patches.—Hindwing pale cinnamon, apex with chocolate-purple and white patch.

Length of forewing: ♂ 20 mm., ♀ 23 mm. Expanse: ♂ 45 mm., ♀ 52 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., February 1911 (A. S. Meek), 1 ♂, 1 ♀ (♀ type).

35. *Stauropus purpurasceus* spec. nov.

♂. Antennae deep brown; head and thorax chocolate maroon-purple powdered somewhat with white; abdomen pale wood-brown.

Forewing chocolate maroon-purple powdered with pale lavender and metallic apple-green scales, the absence in places of these scales gives the wings the appearance of being spotted with brighter purple patches; a cinnamon-white discocellular stigma, an irregular broken postdiseal green band produced by the conglomeration of the green scales.—Hindwing whitish washed with purplish cinnamon, darker towards margins; a deep purple-cinnamon patch at apex.

♀. Similar, larger, and with denser green scaling; no stigma in forewing; hindwing cinnamon grey-brown; purple apical patch powdered with green.

Length of forewing: ♂ 19 mm., ♀ 25 mm. Expanse: ♂ 42 mm., ♀ 56 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., February 1911 (A. S. Meek), 4 ♂♂, 2 ♀♀.

36. *Stauropus viridinitens* spec. nov.

♂♀. Antennae cinnamon-brown; palpi dark brown, third joint orange, very shaggy; head grey with large tuft of hair on vertex; thorax brown, the very long hair tipped with long tips of yellowish green; abdomen chocolate-cinnamon.

Forewing greyish white, densely covered over with metallic green scales; a double antemedial line purple-brown, a double irregular sinuous postmedian band partly of lunules, partly of irregular patches purple-brown, a purple-brown subterminal band of streaks.—Hindwing chocolate-cinnamon; apical patch purple-brown, densely coated with green scales.

Length of forewing: ♂ 24 mm., ♀ 27 mm. Expanse: ♂ 55 mm., ♀ 62 mm.

*Habitat.* Biagi, Mambare River, North-east British New Guinea, 5,000 ft., January 1906 (A. S. Meek) (type ♀), 7 ♂♂, 1 ♀.

37. *Stauropus leucophaeus* spec. nov.

♀. Antennae bright brown; head and thorax pale coffee-brown mixed with dirty white; abdomen dirty brownish cinnamon.

Forewing deep chocolate-brown powdered densely with white scales, a band before middle, a broken irregular patchlike postmedian band, and a zigzag subterminal line entirely without white scales; a broad irregular postdiseal area grey, as is the double stigma.—Hindwing pale chocolate-cinnamon; apical patch brown and white.

Length of forewing: 25 mm. Expanse: 55.5 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., February 1911 (A. S. Meek), 1 ♀.

38. *Stauropus glaucoviridis* spec. nov.

♀. Antennae amber-brown; head and thorax pale bluish sage-green, hairs each tipped with white, inner edges of patagia and patch in centre of thorax dirty grey; abdomen cinnamon wood-brown.

Forewing bluish sage-green encrusted with a here-and-there broken layer

of thick white scales, the ground-colour appearing in patches, a broad oblique postmedian band and a broad anteterminal band in which latter runs a subterminal white line of short streaks; some black spots on costa and a black antemedian band reaching to above vein 1; fringe chequered sooty grey and sage-green.—Hindwing cinnamon grey-brown.

Length of forewing: 23 mm. Expanse: 52 mm.

*Habitat.* Biagi, Mambare, North-east British New Guinea, April 1906 (A. S. Meek), 1 ♀.

### 39. *Stauropus triplagosus* spec. nov.

♀. Antennae brown; head cinnamon-grey; thorax brown, each hair with outer half dirty whitish grey so that the colour appears grizzled; abdomen very pale cinnamon-brown.

Forewing whitish grey powdered with darker scales and in several large patches washed with greenish buff; a large patch beyond discocellulars running from costa into the wing, a baso-subbasal patch below median, and a patch between inner margin and centre of vein 2 dark brown slightly sprinkled with grey; double zigzag ante- and postmedian lines and a sinuous subterminal hair-line also dark brown.—Hindwing pale cinnamon-brown, costal one-third grey with large subapical dark brown patch.

Length of forewing: 28 mm. Expanse: 63 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 500 ft., February 1911 (A. S. Meek), 1 ♀.

### 40. *Stauropus frugilegus* spec. nov.

♂. Antennae brown; head and thorax mouse-grey; abdomen mouse-grey.

Forewing mouse-grey suffused with olive-green, double ante- and postmedian darker lines, the space between the double lines and also between the two lines of each double line a sprinkling of bluish or lavender scales producing a glaucous appearance; a sinuous subterminal dark line beyond which are also bluish scales.—Hindwing dirty white; abdominal area hairy buff; costal area same colour as forewing, outer one-fifth below this pale brownish cinnamon, tapering to vein 1.

Length of forewing: 23 mm. Expanse: 52 mm.

*Habitat.* Rook Island (New Guinea), August–September 1913, 2 ♂♂ (A. S. Meek).

### 41. *Stauropus viridogrisea* spec. nov.

♂. Antennae brown; head rufous cinnamon, strongly mixed with whitish; thorax cinnamon so strongly mixed with white as to appear dull whitish grey; abdomen pale cinnamon-brown.

Forewing brown, outer half densely, basal half less densely suffused with white and spangled with patches of metallic green scales; a number of dark indistinct sinuous double lines cross the disc of the wing, a waved subterminal dark brown hair-line.—Hindwing pale greyish cinnamon-brown, a large dark brown subapical patch powdered with green scales.

♀. Much larger and paler with the sinuous lines much more distinct.

Length of forewing : ♂ 20 mm., ♀ 29 mm. Expanse : ♂ 45 mm., ♀ 66 mm.

*Habitat.* Biagi, Mambare, 5,000 ft., April 1906 (A. S. Meek), 1 ♂ (type); Upper Aroa River, British New Guinea, March 1903 (A. S. Meek), 1 ♀.

42. *Stauropus alboviridis* spec. nov.

♀. Antennae rufous; head and thorax cinnamon maroon strongly mixed with white; abdomen pale cinnamon brown.

Forewing white; basal one-fifth and inner area running along beyond vein 1 and into a patch reaching vein 2 metallic green, in the latter patch a white spot, terminal area suffused with metallic green, a large costo-subcostal green patch with white in it, and two lines proceeding to join patch below vein 2.—Hindwings pale greyish cinnamon; costal area white with large subapical chocolate patch powdered with green.

Length of forewing : 25 mm. Expanse : 55 mm.

*Habitat.* Biagi, Mambare, 5,000 ft., January 1906 (A. S. Meek), 2 ♀♀.

43. *Stauropus germana* spec. nov.

♂. Similar to *pallidifascia* Hmps. but at once distinguished by the double postmedian band **not** being angled, but evenly curved.

Antennae black-brown; head and thorax chocolate rufous; centre of abdomen rufous maroon, sides rufous cinnamon.

Forewing : base and outer one-third slate-grey, the latter with rufous brown cloud-marks and a maroon subterminal hair-line; rest of wing deep rufous with indistinct cloudings, a double curved postmedian band of blood red with cinnamon rufous interspace; a pale stigma.—Hindwing buffy cream-colour; costal one-third maroon rufous with slate-grey apex.

♀. Larger markings similar but deep rufous replaced by chocolate and postmedian double line followed by a broad band of bluish-grey white; hindwing grey-brown.

Length of forewing : ♂ 24 mm., ♀ 29 mm. Expanse : ♂ 54 mm., ♀ 66 mm.

*Habitat.* Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 3 ♂♂, 2 ♀♀ (♂ type); Biagi, Mambare, 5,000 ft., March 1906 (A. S. Meek), 1 ♀.

44. *Stauropus rufescens* spec. nov.

♂. Antennae deep brown; head white tinged with cinnamon, vertex pale lemon; tegulae white mixed with deep rufous, rest of thorax deep maroon rufous; abdomen grey-brown.

Forewing : basal one-fourth pale rufous densely sprinkled with metallic apple-green scales; disc of wing bright maroon rufous, outer one-fourth sprinkled with apple-green giving it a deep brown appearance.—Hindwing inner half cream-white slightly tinged with rufous, rest of wing deep maroon rufous.

♀. Differs in the whole head being pale lemon, the tegulae whiter, and the rest of the thorax dark cinnamon.

The forewing has the basal three-fourths of forewing dark rufous chocolate and the apple-green scales intermixed with grey; the outer fourth is rufous grey with only green scaling along terminal area.—Hindwings darker.

Length of forewing: ♂ 18 mm., ♀ 20 mm. Expanse: ♂ 40 mm., ♀ 46 mm.

*Habitat.* Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 1 ♂ type; Biagi, Mambare, 5,000 ft., April 1906 (A. S. Meek), 1 ♂, 1 ♀.

45. *Stauropus sikkimensis khasianus* subsp. nov.

♂. Differs from *s. sikkimensis* in the thorax and base of the forewing being apple-green **not** grey, and rest of the wing deep spinach-green, as is also the large square apical patch on the hindwing.

*Habitat.* Khasia Hills, Assam, 8 ♂♂ (compared with 7 ♂♂, 2 ♀♀ from Darjeeling in Tring Museum).

46. *Stauropus affinis* spec. nov.

♀. Similar to *sikkimensis* and *s. khasiana*, but distinguished by the absence of definite cross bands on the forewing, by a pale subcostal patch one-third from apex, and by three black patches in and near apex of cell. Base of forewing and thorax mixed lavender-grey and apple-green; large apical patch on hindwing black.

Length of forewing: 26 mm. Expanse: 57 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 6,000–7,000 ft., February 1911 (A. S. Meek), 2 ♀♀.

47. *Stauropus mediolinea* spec. nov.

♂. Antennae dark brown; head and thorax mouse-grey; abdomen slightly browner.

Forewing pale mouse-grey, a double median irregular rufous band, the outer part only reaching median vein, basad from this some traces of zigzag lines and spots also rufous; a terminal line of black and white dots.—Hindwings darker mouse-grey with a terminal line of cuneate dark brown spots.

Length of forewing: 26 mm. Expanse: 58 mm.

*Habitat.* Chung-Kiang, West China, August 1911, 1 ♂.

48. *Stauropus incisus* spec. nov.

♀. Antennae dark brown; head, thorax, and abdomen yellowish grey mixed with white hairs.

Forewing white; base and basal four-fifths of wing below median and vein 2 olive-green into which runs a pure white wedge-shaped patch from median on which are some scarlet scales; rest of wing clouded and speckled with scarlet, green, and dark grey scales and spots.—Hindwing greyish brown-cinnamon, a black subapical streak.

Length of forewing: 20 mm. Expanse: 45 mm.

*Habitat.* Ogrugu, Niger.

49. *Stauropus apiculatus* spec. nov.

♂♀. Antennae deep brown; head and thorax pale maroon-cinnamon; abdomen cinnamon-brown, last segment and anal tuft ash-grey.

Forewing claret-cinnamon; base, inner margin below vein 1, a large lunate.

postdiscal patch, and a smaller patch below vein 3 pinkish silver-grey.—Hindwings cinnamon-brown.

Length of forewing : ♂ 21 mm., ♀ 28 mm. Expanse : ♂ 47 mm., ♀ 63 mm.

*Habitat.* Penang, January—April 1898 (Curtis), 2 ♂♂, 1 ♀ (type ♀); 1 ♀ Khasia Hills, April 1897 (Native coll.).

50. *Stauropus notodontina* spec. nov.

♂. Antennae dull brown; head dirty white; thorax grey freckled with white and cinnamon brown-grey.

Forewing: basal three-fifths slate-grey clouded with paler grey, a double semicoalescing antemedian black line and a postmedian dark serrated band beyond which is a broad black sharply angulated line separating the basal three-fifths from rest of wing, an indication of a discocellular stigma; outer two-fifths of wing pale ash-grey, a dark grey streak from costa to vein 4 outside angled band; a black marginal hair-line.—Hindwing dirty white with brownish grey shaggy hair at base and on abdominal area, a black torral spot and a dark grey terminal hair-line; fringe chequered grey and white with two black spots near tornus.

♀. Larger; forewing ground-colour uniform, grey bands and lines very distinct, angled black band broken between veins 2 and 3.—Hindwings cinnamon-grey with a darker and paler double median line.

Length of forewing : ♂ 25 mm., ♀ 29 mm. Expanse : ♂ 57 mm., ♀ 67 mm.

*Habitat.* Khasia Hills, Assam, May 1897 (Nat. coll.), 5 ♂♂, 4 ♀♀ (♀ type).

51. *Stauropus bipunctus* spec. nov.

♀. Similar to the last but more uniform grey.

Forewing mouse-grey with paler and darker shadowy serrated lines; two black spots obliquely vertical, one in cell and one below median, a postmedian serrated black band from costa to vein 4 outside, which is a black costal patch from which runs a dark grey serrated line also to vein 4.—Hindwings yellowish grey.

Length of forewing : 26 mm. Expanse : 60 mm.

*Habitat.* Penang, January 1897 (Curtis), 1 ♀.

52. *Cascera albiscripta* spec. nov.

♀. Antennae black-brown; head white, vertex buffish green; tegulae buffish green, rest of thorax buffish green shaded with pale brown and sprinkled with white; abdomen bronzy wood-brown.

Forewing olive-bronze, basal three-fifths with double white spots on costa, inside of cell white, reaching beyond median near base; an antemedian white curved hair-line and a dumbbell white patch beyond it below median; a large black reniform stigma and beyond it a broad white oblique band reaching from costa to vein 2; subterminal and terminal area whitish with cinnamon spots, a zigzag white line bordering it basad.—Hindwing: basal half bronzy wood-brown, outer half darker.

Length of forewing : 24 mm. Expanse : 55 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., February 1911 (A. S. Meek), 1 ♀.

53. *Cascera albiscripta virens* subsp. nov.

♀. Similar to *a. albiscripta* but paler bronzy olive-green.

*Habitat.* Angabunga River, affluent of St. Joseph's River, British New Guinea, November 1904—February 1905 (A. S. Meek), 1 ♀.

54. *Cascera marginata* spec. nov.

♀. Antennae brown; head brownish buff; thorax creamy brown, tegulae and patagia on inner side broadly with hairs tipped with white; abdomen brownish cinnamon.

Forewing dirty white variegated with streaks and cloudings of olive-brown, a deep chocolate stigma and a square pure white patch between basal half of veins 2 and 3; outer fourth of wing and area below median nervure chocolate-brown suffused with olive; some indistinct whitish lines and spots in area below median and an irregular white marginal line.—Hindwing brownish cinnamon.

Length of forewing: 25 mm. Expanse: 56 mm.

*Habitat.* Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 1 ♀ type; near Oetakwa River, Snow Mountains, Dutch New Guinea, up to 3,500 ft., October—December 1910 (A. S. Meek), 2 ♀♀.

55. *Cascera flavovirens* spec. nov.

♀. Antennae brown; head vinaceous mixed with cream-white; tegulae claret-colour edged with greenish white, patagia pale yellowish sea-green mixed with white and edged with claret-colour; rest of thorax and abdomen cinnamon.

Forewing mossy yellowish sea-green variegated with darker and whitish lines and clouds; costa with alternate maroon and white oblique bands and patches, a large antemedian angled maroon patch below median with white spot in angle, a pale maroon stigma, a white patch above vein 2, a broad irregular postdiscal maroon band, and a subterminal line of maroon and white cuneate spots.—Hindwings cinnamon.

Length of forewing: 28 mm. Expanse: 63 mm.

*Habitat.* Near Oetakwa River, Snow Mountains, Dutch New Guinea, up to 3,500 ft., October—December 1910 (A. S. Meek), 1 ♀.

56. *Cascera olivacea olivacea* spec. nov.

♂ ♀. Antennae rusty brown; head olive mixed with white; tegulae orange-buff, dark brown at base, rest of thorax buff washed with olive and with central dark brown spot; abdomen dark cinnamon.

Forewing velvety olive-brown, with irregular buff and green baso-subbasal marks, costa with white and olive on greenish buff markings, a central irregular olive-buff patch clouded with olive-brown and sharply reduced to half its width from base of vein 2 and with a large and smaller dark olive-brown patch above median; a white patch above vein 2 and an olive-buff zigzag subterminal line; fringe golden olive.—Hindwing dark cinnamon.

Length of forewing: ♂ 25 mm., ♀ 27 mm. Expanse: ♂ 57 mm., ♀ 61 mm.

*Habitat.* Near Oetakwa River, Snow Mountains, Dutch New Guinea, up to 3,500 ft., October—December 1910 (A. S. Meek), 1 ♂, 1 ♀.

56a. *Cascera olivacea flavolavata* subsp. nov.

♂. Differs from *o. olivacea* in being much paler and looks as if it had been soaked in a sulphur bath.

*Habitat.* Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 1 ♂.

57. *Cascera irrorata* spec. nov.

♂. Antennae rufous brown; head cinnamon; tegulae cinnamon, hairs along edges tipped with white, rest of thorax dark cinnamon-brown with many hairs tipped with white; abdomen rufous cinnamon.

Forewing bright chocolate slightly washed with olive and streaked and lined irregularly with pale whitish pink; a white mark under median near base and an oval white patch on vein 2; an irregular sinuate white subterminal line; fringe mixed pale grey and brown.—Hindwings dark cinnamon.

Length of forewing: 21.5 mm. Expanse: 49 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., February 1911 (A. S. Meek), 1 ♂.

57a. *Cascera irrorata pallida* subsp. nov.

♂. Differs from *i. irrorata* in the forewings being paler and more washed with olive and the white and pinkish white marking much extended.

*Habitat.* Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 1 ♂.

58. *Cascera perscripta* spec. nov.

♂ ♀. Antennae brown; head brownish buff; tegulae brownish orange-buff, rest of thorax deep cinnamon-brown mixed with cream-white; abdomen cinnamon.

Forewing velvety olive-green scribbled all over with pale buff lines and streaks, those in centre of disc tinged with bright pink.—Hindwing cinnamon.

Length of forewing: ♂ 23 mm., ♀ 25 mm. Expanse: ♂ 51 mm., ♀ 56 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., February 1911 (A. S. Meek), 2 ♂♂, 6 ♀♀.

59. *Cascera variegata* spec. nov.

♂. Antennae brown, basal three segments white; head cream-white; tegulae amber-yellow mixed with buff, rest of thorax amber-brown mixed with white and olive-green; abdomen cinnamon.

Forewing golden olive-bronze, banded, spotted, and streaked with buff, white, and pink, a postdiscal cloud-band of bronzy green.—Hindwings dark cinnamon.

♀. Larger and darker.

Length of forewing: ♂ 22 mm., ♀ 26 mm. Expanse: ♂ 49 mm., ♀ 57 mm.

*Habitat.* Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 3 ♂♂, 3 ♀♀.

60. *Malocampa bucephaloides* spec. nov.

♂. At first sight this and the next species resemble the genus *Phalera*. Antennae very large and long, heavily pectinated on basal three-fourths, bright amber-brown; head rusty chestnut; thorax purple-chocolate, hinder half densely sprinkled with white, giving it a roan colour; abdomen cinnamon rufous.

Forewing rusty chocolate-brown; base dark grey edged with white, a broad central band 7 mm. wide of greyish mauve irrorated with black scales, this band is ill defined on the basal side, spreading far towards base below median, on the distad side it is sharply defined by a concave transverse triple line first black, then white, then rufous orange, the black portion of this line is sharply angled inwards; the outer two-fifths of the wing are rufous chocolate fading into greyish cloudy mauve; fringe rufous and grey.—Hindwing cinnamon rufous tinged with brown, an angled rufous-cream postmedian band; fringe rufous white.

Length of forewing: 35 mm. Expanse: 78 mm.

*Habitat.* St. Jean de Maroni, French Guiana, 1 ♂.

61. *Malocampa phaleroides* spec. nov.

♂. Very closely allied to the last species. Antennae brownish amber-yellow; head rusty chestnut; thorax purple-chocolate, hinder edges and hind edge of patagia with the hairs tipped with dirty white; abdomen rusty cinnamon.

Forewing brownish cinnamon-chocolate washed with yellowish grey; a double discocellular stigma; base of wing obliquely violet-chocolate; a sub-basal white band starting from vein 1 runs obliquely to costa and along latter except outer one-third, and spreads to subcostal vein, and slightly beyond it; a postdiscal double lunate crenulate mauve and brown shadow-line, and a sub-terminal line of mauve and brown spots; fringe rusty rufous.—Hindwing cinnamon rufous with darker median line edged outwardly with rusty white ending in a chocolate and white tornal patch; fringe rusty rufous.

Length of forewing: 35 mm. Expanse: 79 mm.

*Habitat.* La Oroya, Rio Inambari, Peru, 3,100 ft., September 1904 (G. Ockenden), 2 ♂♂.

62. *Rhuda opalistriga* spec. nov.

♂♀. Similar to *difficilis* Schaus, but smaller, and the baso-subbasal streak prolonged in a band along four-fifths of vein 1, and consisting of an opalescent blue band with a white central line; above this band the brown colour runs in a perfectly straight oblique band below the pale pink fascia and ends on vein 2 one-sixth from termen in a round black spot.

Length of forewing.	Expanse.
<i>difficilis</i> , ♂ 31 mm., ♀ 37 mm.	♂ 70 mm., ♀ 83 mm.
<i>opalistriga</i> , ♂ 25 mm., ♀ 29 mm.	♂ 56 mm., ♀ 64 mm.

*Habitat.* Amazons, 1 ♀; Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 1 ♂ type.

63. *Rhuda posttriangulum* spec. nov.

♂. Differs from *tuisa* Schaus in the forewing being narrower and more pointed, and in the baso-subbasal bluish white oblique band being prolonged farther along vein 1. On the hindwing in the **absence** of the terminal brown band, in having an indistinct or rather ill-defined dirty brown bar running up from tornus to almost base of wing, and in the termen being deeply concave **not** convex, and the apex and tornus are produced to long blunt points, making the wing absolutely triangular instead of rounded. The hindwing is yellow suffused with dirty brownish grey.

Length of forewing: 31 mm. Expanse: 69 mm.

*Habitat.* Potaro, British Guiana, May 1908 (S. M. Klages), 3 ♂♂ type; Omai, British Guiana, June 1908 (S. M. Klages), 1 ♂.

64. *Hoplitis cinnamomea* spec. nov.

♂♀. Close to *strigata* Moore. Antennae deep rufous; head brown; thorax grey, slightly mixed with brown hairs; abdomen rufous cinnamon.

Forewing rufous cinnamon; costa and a concave band from apex curving round to middle of costa deep rufous; within this line and just behind it three pale grey patches; a slate-grey cloudy patch in centre of disc; termen and inner margin from vein 4 to middle of inner margin including vein 1 broadly slate-grey; a large deep rufous patch above tornus.—Hindwing semihyaline white, a blackish patch at tornus.

Length of forewing: 33 mm. Expanse: 75 mm.

*Habitat.* Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 3 ♂♂, 1 ♀ (♂ type).

65. *Hoplitis insignifica* spec. nov.

♀. Antennae rufous brown, shaft grey; head and thorax dirty brownish mouse-grey, a dark streak in centre of thorax and on patagia; abdomen dirty brown-grey.

Forewing mouse-grey with dark grey streaks on costa; ante- and post-median dark grey lines.—Hindwing dirty white, passing into grey-brown along costa, apex, and termen; an ash-grey and dark patch at tornus.

Length of forewing: 34 mm. Expanse: 74 mm.

*Habitat.* Dammer Island, November 1898 (H. Kühn), 2 ♀♀.

66. *Hoplitis dasychiroides* spec. nov.

♀. Antennae shaft crimson, pectinations black; head and thorax mouse-grey; abdomen greyish white, a root patch on first segment.

Forewing mouse-grey; three or four black-brown lines run from costa across cell to median nervure and some oblique dark grey bands one-third from apex on costo-subcostal area; a postdiscal curved and slightly sinuous black line and a shadowy darker grey subterminal band.—Hindwing semihyaline white, outer one-third slate-grey. Second specimen forewing more brownish.

Length of forewing: 31 mm. Expanse: 68 mm.

*Habitat.* Isumeb, S. W. African Protectorate.

67. *Hoplitis curvatula* spec. nov.

♂. Very curiously curved and narrow forewings. Antennae black; frons orange-buff, vertex dark brown-grey; thorax greyish olive mixed with dirty buff, tegulae edged with black; some black on thorax; abdomen sooty brown ringed with dirty white, anal tuft orange.

Forewing costa very strongly convex and outer one-third strongly curved downwards; termen from apex abruptly truncated and excised at tornus, giving the narrow wing a unique appearance; olive-brown washed and splashed with patches of deep moss-green; in cell running from costa is a truncated black  $\times$ , and on outer one-third of costo-subcostal area are black bands and spots, and a large black mark above tornus.—Hindwings: basal two-thirds white; long hair on abdominal area buff; outer one-third black-brown; some black streaks above tornus.

Length of forewing: 42 mm. Expanse: 93 mm.

*Habitat.* Kasai River, Congo Region.

68. *Chadisra albobrunnea* spec. nov.

♀. Antennae brown, basal five joints cream-colour; head buff, palpi brown; tegulae buff, patagia chocolate, rest of thorax yellowish grey; abdomen greyish cinnamon.

Forewing: basal half obliquely chocolate-brown; costal area, some marks above vein 1 and in cell amber-brown; outer half whitish grey suffused with very pale olive; a similar coloured patch runs up from the inner margin into the basal half of wing, and a deep brown patch runs into the wing from costa near apex.—Hindwing dirty wood-brown, a dark spot above tornus.

♂. Similar, but duller and paler; the two halves of forewing less distinctly different in colour and hindwing pale whitish grey.

Length of forewing: ♂ 25 mm., ♀ 30 mm. Expanse: ♂ 56 mm., ♀ 67 mm.

*Habitat.* Khasia Hills, Assam, December 1895 (Nat. coll.), 1 ♂. 3 ♀♀ (♀ type).

69. *Chadisra meeki* spec. nov.

♂. Antennae dark brown; head and thorax dark coffee-brown mixed with cinnamon-buff hairs; abdomen bright cinnamon, anal segment with black hair-lines.

Forewing: basal two-fifths dark brown, edge of inner margin and a patch near base of costa brownish buff, this dark brown area deeply incised between veins 1 and 2; outer three-fifths of wing dull isabel-buff clouded and streaked with yellowish olive and blackish brown; a black brown patch on and under costa just before apex.—Hindwing: basal two-thirds dirty buff; outer one-third brownish cinnamon, a brown streak above tornus.

Length of forewing: 29 mm. Expanse: 66 mm.

*Habitat.* Mount Goliath, Central Dutch New Guinea, 5,000–7,000 ft., January 1911 (A. S. Meek), 3 ♂♂.

70. *Chadisra striata striata* spec. nov.

♂. Antennae brown; head buff mixed with black hairs; tegulae buff mixed with black hairs, rest of thorax black mixed with brownish hairs; abdomen brownish buff.

Forewing greyish cinnamon with broad black band like longitudinal streaks from base to termen, and a number of blackish vertical striations; a median sinuous and strongly angled black line.—Hindwing buff, margins pale cinnamon, a dark brown spot above tornus.

♀. Larger.

Length of forewing: ♂ 22 mm., ♀ 25 mm. Expanse: ♂ 50 mm., ♀ 56 mm.

*Habitat.* Kumusi River, North-east British New Guinea, low elevation, August 1907 (A. S. Meek), 1 ♂, 1 ♀ (♂ type); Upper Aroa River, British New Guinea, April 1903 (A. S. Meek), 1 ♂.

71. *Chadisra striata divisa* subsp. nov.

♀. Differs from *S. striata* in the basal half obliquely being strongly suffused with brown, thus dividing the wing into two parts.

*Habitat.* Goodenough Island, 2,500–4,000 ft., May 1913 (A. S. Meek), 2 ♀♀.

72. *Chadisra plagosa* spec. nov.

♂. Antennae brownish buff; head, thorax, and abdomen buffish wood-brown.

Forewing buffish cinnamon with a number of indistinct zigzag brownish lines; a pale greenish subbasal patch under costa, basal one-fourth of wing paler, more buffish; a large black-brown sharply angled band runs from median to tornus and from median to near base of inner margin; all below this band brownish slate-grey; a large subapical patch pale lavender-grey tinged with green.—Hindwings wood-brown; fringe, base, and median shadow buffish.

Length of forewing: 21 mm. Expanse: 47 mm.

*Habitat.* Warri, Niger, April 1897 (Dr. Roth), 1 ♂.

73. *Tarsolepis rufobrunnea* spec. nov.

♂. Antennae deep brown, pectinations short; head and thorax vinaceous chocolate; abdomen deep brown, no crimson tuft on underside.

Forewing deep rufous chocolate; basal two-thirds of costal area entirely suffused with pale mauve and freckled; silver patches as in *sommeri*, but much larger; submarginal area washed strongly with vinaceous and with four lines, inner one orange-buff, outer three various shades of brown.—Hindwings paler chocolate.

Length of forewing: 37–49 mm. Expanse: 83–109 mm.

*Habitat.* Travancore (Place), 1 ♂ type; Khasia Hills, Assam (Nat. coll.), 1 ♂.

74. *Tarsolepis sericeus* spec. nov.

♂. Antennae dark rufous brown; head and thorax deep rufous chocolate; abdomen sooty blackish grey, anal segment buff with dark brown streaks and two large fan-shaped and pointed buff tufts.

Forewing vinaceous chocolate streaked and clouded with cinnamon so as

to resemble watered silk; termen deeply serrated with pale median streak to each tooth; a yellow quadrate spot under middle of vein 4.—Hindwing golden buff suffused with brown-grey.

Length of forewing: 34 mm. Expanse: 77 mm.

*Habitat.* Java.

75. *Phalera postaurantia* spec. nov.

♂. Antennae black, pectinations very long; head and thorax rufous and buff mixed, patagia and patch at back of thorax grey tipped with white; abdomen orange ringed indistinctly with brownish orange.

Forewing vinaceous wood-brown suffused with grey and white, becoming whiter towards inner margin; a double antemedian line, inner less pronounced rusty brown, outer black; a postdiscal double line of coalescent lunules, inner black, outer dark rufous; an apical olive-buff patch below which is an irregular heavy black angled line.—Hindwings golden orange; edge of termen and nervures black.

Length of forewing: 27 mm. Expanse: 60 mm.

*Habitat.* Itumba, German East Africa (Dr. Baxter), 1 ♂ type; Mpuapua, German East Africa (Dr. Baxter), 1 ♂.

76. *Phalera elongata* spec. nov.

♂ ♀. This species is distinct from all others by its long and narrow wings and long silken hair on the body.

Antennae rusty rufous, pectinated in both sexes, shorter in ♀; head and thorax golden buff, margins of tegulae and two median transverse lines deep rufous, hind part of thorax clothed with long silky sooty brown hairs, patagia white edged with grey; abdomen clothed with long silky hair, basal segment sooty brown, anal segment and tuft buff washed with dirty grey; rest of abdomen orange.

Forewing brown-grey washed with pink; base white, a subbasal black-brown line, followed by seven indefinite darker grey crenulate and sinuate lines; apical one-fourth to vein 3 buff with darker buff clouding, bordered inwardly by a bright rufous and brown double concave band, black streaks in buff on veins 3 and 4.—Hindwings sericeous bronzy grey-brown.

Length of forewing: ♂ 28-30 mm., ♀ 33 mm. Expanse: ♂ 62-66 mm., ♀ 75 mm.

*Habitat.* Khasia Hills, Assam, February 1896 (Nat. coll.), 2 ♂♂, 1 ♀ (♂ type).

77. *Phalera inexpectata* spec. nov.

♂. Antennae black; head cream-white; thorax white; tegulae, a median convex band and three spots behind dirty black-brown, tegulae being palest; abdomen white washed with brownish and with broad brown rings on each segment, anal tuft brownish white.

Forewing vinaceous brown on outer one-third freckled with white scales, basal two-thirds cream-white freckled densely with vinaceous scales thickest on basal one-third and least in cell and round discocellulars; base white with black dot; this freckling gives the forewing a roan appearance; an antemedian deep purple

line angled in cell, joined to which outwardly is a similarly coloured wedge-shaped patch on median; a similarly coloured wedge spot beyond middle of costa and a small spot below it on inner margin.—Hindwing white, outer one-fourth brown-grey.

Length of forewing: 34–39 mm. Expanse: 76–88 mm.

*Habitat.* Ilesha, South Nigeria (Captain Humphrey), 2 ♂♂.

#### 78. *Rifargia cossoides* spec. nov.

♂. Antennae: shaft dark brown, peetinations short, amber-brown; head and thorax deep chocolate-brown, hind part of thorax pale greenish grey, edge of tegulae dark rufous; abdomen rufous cinnamon-chocolate, anal segment above greenish grey, anal tuft mixed greenish grey and rufous.

Forewing: basal one-third above median fold deep chocolate-brown with some dark rufous marks, a deep chocolate-brown apical patch tinged with rufous, rest of wing greenish grey washed with brownish with a number of more or less obsolete double brownish sinuate bands, a black crenulate-angulate subterminal hair-line.—Hindwing deep brownish chocolate, a median paler indefinite band, and a grey and black tornal patch. ♀ similar but paler, and light part of forewing whitish grey with no greenish tinge.

Length of forewing: 32–38 mm. Expanse: 72–87 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 5 ♂♂ type; Santo Antonio do Javary, Upper Amazons, May 1907 (S. M. Klages), 1 ♂; Aroewarwa Creek, Maroewym Valley, Surinam, April 1905 (S. M. Klages), 1 ♂; Christianeburg, Rio Demerara, British Guiana, 1 ♀.

#### 79. *Rifargia terebroides* spec. nov.

♂. This insect looks exactly like a melanistic *Cossus terebra*.

Antennae serrate, shaft black, serrations amber-brown; head and thorax sooty brown, two transverse black lines on the tegulae; abdomen brownish cinnamon-chocolate, first two segments suffused with sooty brown.

Forewing olivaceous cinnamon suffused, clouded, and patched with sooty brown, greyish moss-green, and dark grey, giving the wing at first sight a mummy-brown appearance; subbasal and antemedian somewhat obliterated double crenulate black lines, a greenish brown oval stigma, two double postmedian bands, the first sooty brown, sinuate, reaching inner margin where it meets a white spot, the second black, convexly curved, only reaching vein 3, two subapical black streaks and a black crenulate subterminal hair-line.—Hindwing dull brownish chocolate.

Length of forewing: 31 mm. Expanse: 70 mm.

*Habitat.* Potaro, British Guiana, May 1908 (S. M. Klages), 3 ♂♂ type; Tumatumari, British Guiana, January 1908 (S. M. Klages), 1 ♂; British Guiana bought at Georgetown (Rev. M. Whitford), 1 ♂; Aroewarwa Creek, Maroewym Valley, Surinam, March–April 1905 (S. M. Klages), 2 ♂♂; Fonte Boa, Upper Amazons, October 1906 (S. M. Klages), 2 ♂♂.

#### 80. *Rifargia biplaga* spec. nov.

♂. Antennae dark rufous brown; head and thorax black-brown, out half of tegulae rufous brown; abdomen brownish cinnamon.

Forewing black-brown slightly variegated with paler brown and olive; basal one-third to vein 1 deeper black-brown, a basal dull cinnamon patch below vein 1, a long black apical streak and two large lavender-grey patches on vein 1, reaching inner margin below it and halfway to vein 2 above it.—Hindwing dirty cinnamon wood-brown with traces of paler central cloud-band.

Length of forewing: 32 mm. Expanse: 72 mm.

*Habitat.* Tinguri, Carabaya, South-east Peru, 3,400 ft., August 1904 (G. Oeckenden), 4 ♂♂ type; La Oroya, Carabaya, 3,100 ft., September 1905 (G. Oeckenden), 1 ♂.

#### 81. *Rifargia basiplaga* spec. nov.

♂♀. Antennae sooty black; head and thorax chestnut-brown, tegulae and patagia mixed with brownish buff; abdomen sooty brown.

Forewing: basal one-third cinnamon, rusty brown to vein 1, edged and rayed with rufous chocolate, outer two-thirds of wing and all below vein 1 dark dull brown; above vein 3 on outer two-thirds of forewing densely suffused and sprinkled with whitish grey, a postmedian sinuous rufous hair-line and black terminal hair-line.—Hindwing sooty black-brown, base suffused slightly with cinnamon.

Length of forewing: ♂ 23-26 mm., ♀ 28 mm. Expanse: ♂ 51-59 mm., ♀ 63 mm.

*Habitat.* St. Jean de Maroni, French Guiana, 2 ♂♂ type; Potaro, British Guiana, April-May 1906 (S. M. Klages), 2 ♂♂; Rio Demerara, British Guiana, 2 ♀♀; Fonte Boa, Upper Amazons, May-October 1906 (S. M. Klages), 5 ♂♂.

#### 82. *Rifargia steinbachi* spec. nov.

♂. This and the following species are distinguished by their long, narrow, and pointed wings.

Antennae amber-brown; head cinnamon-brown; thorax greenish grey; abdomen rufous cinnamon.

Forewing rusty cinnamon above median fold, shaded and clouded with mossy olive-grey and green; outer one-fifth of wing and all below median fold dark olive mouse-grey; a band from base along basal one-third of median fold and a broad ill-defined zigzag cloud-like band from one-fifth before apex obliquely to below middle of median fold rusty brown-black.—Hindwing white washed with brown on termen and abdominal area. The Fonte Boa ♂ is much more rufous on forewing, but is much rubbed.

Length of forewing: 26 mm. Expanse: 59 mm.

*Habitat.* Buenavista, East Bolivia, 2,438 ft., August 1906-April 1907 (J. Steinbach), 1 ♂ type; Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 1 ♂.

#### 83. *Rifargia muscosa* spec. nov.

♂. Antennae dark brown, serrations amber-yellow; head chestnut rufous; tegulae chestnut rufous edged with soot-brown black, rest of thorax soot-brown black mixed with green-grey; abdomen first two segments chestnut rufous, sides golden orange, rest of abdomen and anal tuft sooty black with a few scattered yellow hairs, lateral line except on last two segments golden orange.

Forewing mossy grey-green densely mottled with black and tinged in centre with pale cinnamon rose; an antemedian double black line and two or indistinct postmedian erenulated ones, a erenulated marginal black line; an orange basal tuft below vein 1.—Hindwing: centre grey; veins and portion dull brown; base and abdominal one-fourth golden orange on which is a dark brown smear.

Length of forewing: 25 mm. Expanse: 57 mm.

*Habitat.* Aroewarwa Creek, Maroewyn Valley, Surinam, April 1905 (S. M. Klages), 1 ♂.

#### 84. *Rifargia intermedia* spec. nov.

♂. Is intermediate between *picta* Schaus and *merita* Schaus, having the continuous median longitudinal band of *merita* and pale band above vein 1 of *picta*, but differs from both in its golden buff coloration.

Antennae brown; head and thorax orange rufous, patagia dirty greenish mouse-grey; abdomen yellowish cinnamon.

Forewing vinaceous cinnamon, median band from base of costa to middle of termen brownish buff washed with pink; the band above vein 1 buff washed on outer half with grey.—Hindwing golden buff slightly suffused with brown on margin. ♀ larger, darker; hindwing suffused with brown.

Length of forewing: ♂ 24 mm., ♀ 29 mm. Expanse: ♂ 54 mm., ♀ 64 mm.

*Habitat.* San Esteban, Venezuela, June 1909 (S. M. Klages), 5 ♂♂, 1 ♀.

#### 85. *Anita gigas* spec. nov.

♂. Antennae black-brown; head and thorax slate-grey variegated with white; abdomen slate-grey.

Forewing slate-grey; costal area and subbasal one-fifth white streaked with grey; rest of wing with lines of darker grey barely showing up from ground-colour; a subterminal zigzag black line.—Hindwing brownish slate-grey.

Length of forewing: 33 mm. Expanse: 73 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 2 ♂♂.

#### 86. *Cargetta albostigmata* spec. nov.

♂. Antennae: shaft cinnamon grey, pectinations black; head and thorax sooty brown-black, a few irregular marks more rusty; abdomen sooty grey-brown.

Forewing sooty black-brown, paler towards termen, a few darker lines near base apparently of raised scales; a white spot at end of cell.—Hindwing grey-brown.

Length of forewing: 21 mm. Expanse: 48 mm.

*Habitat.* Goodenough Island, 2,500—4,000 ft., April 1913 (A. S. Meek), 1 ♂.

#### 87. *Cargetta flavibasis* spec. nov.

♂. Antennae sooty black; head and palpi sooty black-brown with buff and white scales; thorax sooty black-brown; abdomen dark wood-brown.

Forewing sooty black-brown, with some faint traces of rusty markings; a black dot in white ring below middle of subeosta, white dots along outer one-

third of costa and a subterminal line of similar dots and a few one-fourth from termen; three raised dots of scales in centre of disc and some patches of dark green scales along upper or costal portion of wing.—Hindwing: basal half buffish yellow, outer half sooty brown-black.

♀. Similar, but has either the forewing with patches of dark green scales all over and a rusty patch beyond cell or entirely dark green with some discal sinuate brown-grey lines.

Length of forewing: ♂ 21–24 mm., ♀ 25–28 mm. Expanse: ♂ 47–53 mm., ♀ 55–61 mm.

*Habitat.* Near Oetakwa River, Snow Mountains, Dutch New Guinea, up to 3,500 ft., October–December 1910 (A. S. Meek), 1 ♂ type; Upper Setekwa River, Snow Mountains, 2,000–3,000 ft., August 1910 (A. S. Meek), 2 ♀♀; Kumusi River, North-east New Guinea, low elevation, May 1907 (A. S. Meek), 1 ♂.

#### 88. *Cargetta bipuncta* spec. nov.

♂♀. Antennae brown; head olive; thorax olive-grey on greyish olive; abdomen pale cinnamon-brown.

Forewing pale olive-green, subbasal, antemedian, and postmedian crenulate sinuous rusty cinnamon bands edged with brown; a subterminal crenulate brown line; two white spots one above the other at end of cell.—Hindwing cinnamon grey-brown.

Length of forewing: ♂ 22 mm., ♀ 26 mm. Expanse: ♂ 49 mm., ♀ 58 mm.

*Habitat.* Biagi, Mambare River, North-east British New Guinea, 5,000 ft., February 1906 (A. S. Meek), 1 ♂, 1 ♀ (♀ type).

#### 89. *Turnaca mediofascia* spec. nov.

♀. Antennae brown; head and thorax vinaceous pink suffused with cinnamon-grey; abdomen chocolate-cinnamon.

Forewing: costal half vinaceous pink suffused with grey and freckled with rufous; lower half dark chocolate-cinnamon freckled with grey; a slightly sinuous rufous band from base of cell to termen.—Hindwing chocolate-cinnamon.

Length of forewing: 28 mm. Expanse: 62 mm.

*Habitat.* Khasia Hills, Assam, April 1896 (Nat. coll.), 2 ♀♀.

#### 90. *Turnaca phragmatoecioides* spec. nov.

♂. Antennae brown, pectinations rufous; head and thorax buffish brown mixed with cream hairs; abdomen greyish brown-buff.

Forewing pale buffish pinky grey suffused with darker grey below median; three oblique brown streak-like spots on costa, a few scattered shadowy spots on disc, and a postmedian curved line of intracural black streaks.—Hindwings white; base and abdominal area buff.

Length of forewing: 22 mm. Expanse: 49 mm.

*Habitat.* Luebo, Kasai River (P. Landbeck), 1 ♂.

91. *Turnaca lanuginosa* spec. nov.

♂. Very woolly; anal tuft large. Antennae brown, shaft whitish; head and thorax buffish grey washed with cinnamon; abdomen pinkish cinnamon, anal tuft whitish.

Forewing pale pinkish cinnamon washed with grey with a number of cloud-marks and freckled with rufous cinnamon; a postdiscal line of indistinct darker dots.—Hindwing rufous cinnamon.

Length of forewing: 21–22 mm. Expanse: 47–50 mm.

*Habitat.* Luebo, Kasai River (P. Landbeck), 1 ♂ type; Akassa to Onitsha, River Niger (Dr. Cook), 1 ♂.

92. *Turnaca nigripuncta* spec. nov.

♂. Antennae rufous brown; head and thorax grizzled isabel-grey; abdomen isabel-grey, anal tuft grizzled.

Forewing greyish isabel; costa and disc with numerous black-brown dots, a black line from base to termen along median fold, two curved postdiscal lines of black-brown dots.—Hindwing white.

Length of forewing: 17–21 mm. Expanse: 38–48 mm.

*Habitat.* Takwa, Gold Coast (R. E. James), 3 ♂♂.

93. *Baradesa omissa* spec. nov.

♂ ♀. Very similar to *lithosioides* Moore, but smaller and duller; has hitherto been confused with *lithosioides*.

Differs in being duller above; on forewing the discal black dots except a single postmedian line are absent, stigma more distinct; hindwing has brown outer portion much narrower; the dark apex of abdomen does not reach so far up the abdomen. Below the nervures are dark **not** yellow.

Length of Forewing.

Expanse.

<i>lithosioides</i> , ♂ 44–49 mm., ♀ 53 mm.	. . .	♂ 97–107 mm., ♀ 115 mm.
<i>omissa</i> , ♂ 38–41 mm., ♀ 45 mm.	. . .	♂ 84–90 mm., ♀ 98 mm.

*Habitat.* Khasia Hills, Assam (Nat. coll.), 7 ♂♂, 1 ♀ (type ♂); Mount Tahan, Malay Peninsula (J. Waterstradt), 1 ♂; Gunong Ijau, Malay Peninsula, 1 ♂. (Compared with 11 ♂♂, 3 ♀♀ of *lithosioides* from Buxa Bhutan, Sikkim, and Khasia Hills.)

94a. *Euhampsonia niveiceps occidentalis* subsp. nov.

♂. Differs from *n. niveiceps* in being much paler, and in the markings on the forewings being almost obsolete.

*Habitat.* North-west Himalayas; Kumaon, July 1893 (J. G. Pilcher), 1 ♂ type; Kulu, 1 ♂; Dalhousie, July 1891, 1 ♂.

95. *Euhampsonia magnifica* spec. nov.

♀. Antennae very large and heavily pectinated, amber-brown; head and thorax scarlet, a sooty patch at base and one at edge of tegulae, hindermost part of thorax deeper red; abdomen scarlet, last three segments vinaceous red-brown.

Forewing: basal one-fifth scarlet with basal and subbasal zigzag black lines, the latter only to vein 1; rest of wing, basal half brick-red somewhat tinged with brown and with two double lunate crenulate purple-grey cross-bands and a small black stigma, outer half purplish sooty brown-grey with a buffish yellow space between veins 4 and 1 just beyond middle of wing, 1 indistinct median dark crenulate line and 2 postmedian distinct ones.—Hindwings bright brick-red washed slightly with grey on outer one-third.

Length of forewing: 62 mm. Expanse: 136 mm.

*Habitat.* Near Oetakwa River, Snow Mountains, Dutch New Guinea, October—December 1910 (A. S. Meek), 1 ♀.

#### 96. *Macronadata brunnea* spec. nov.

♂. Uniform mummy-brown; hindwings paler; antemedian and postmedian lines dark rufous indistinct, a subterminal line of streaks chocolate rufous, a large stigma.

Length of forewing: 22 mm. Expanse: 49 mm.

*Habitat.* Waya, Lado Enclave, June 1912.

#### 97. *Omichlis pseudolibatrix* spec. nov.

♀. Except the red colouring, this species has a general appearance of *Sciopteryx libatrix*.

Antennae brown; head brownish lavender-grey; thorax pale wood-brown suffused with lavender-grey; abdomen pale sooty brown.

Forewings wood-brown tinged with yellow; a yellowish grey stigma, on basal half some indistinct buff and dark subbasal spots, and beyond these some incomplete serrated dark sinuous lines from costa to median vein, basal two-fifths of inner margin and a large patch joining on to it buff strongly freckled with rufous; on outer half an oblique sooty crenulate line followed by two curved lines of sooty coalescent lunules and a zigzag whitish subterminal line.—Hindwing sooty grey-brown, a buff and rufous patch on abdominal fold above tornus.

Length of forewing: 24 mm. Expanse: 53 mm.

*Habitat.* Near Oetakwa River, Snow Mountains, Dutch New Guinea, up to 3,500 ft., October—December 1910 (A. S. Meek), 1 ♀.

#### 98. *Omichlis plusiotis* spec. nov.

♂ ♀. Antennae brown above, white below; head frons dark rufous, vertex white; thorax vinaceous brown, patagia dark rufous; abdomen sooty vinaceous brown.

Forewing vinaceous yellowish grey freckled with dull rufous and with some indistinct cloudy streaks; a subbasal chocolate patch below vein 1 followed by a silver line from median fold to inner margin consisting of two joined silver moons; an oblique median dark brown band between which and the silver line is a rufous mark, a curved postmedian dark sooty grey line, and a crenulate dark rufous subterminal line.—Hindwing rufous chocolate grey-brown, a silver dot above tornus.

Length of forewing: ♂ 23 mm., ♀ 21 mm. Expanse: ♂ 52 mm., ♀ 47 mm.

*Habitat.* Near Oetakwa River, Snow Mountains, Dutch New Guinea, up

to 3,500 ft., October—December 1910 (A. S. Meek), 1 ♂ type; Upper Setekwa River, Snow Mountains, 2,000–3,000 ft., September 1910 (A. S. Meek), 1 ♂; Ninay Valley, Central Arfak Mountains, Dutch New Guinea, 3,500 ft., November 1908—January 1909 (A. E. Pratt), 1 ♀.

99. *Omicchlis mediofasciata* spec. nov.

♂. Antennae brown, shaft pale cinnamon; head mixed pale grey and cinnamon; thorax brownish cinnamon washed with grey; abdomen cinnamon-brown.

Forewing vinaceous cinnamon; stigma pale rufous, two antemedian and one postmedian double darker lines, between the stigma and the postmedian double line is a sooty single line from below subcostal vein to inner margin; a heavy chocolate rufous band from base to termen at vein 5 (angle) along median. —Hindwing brownish cinnamon, some irregular rufous-brown marks above tornus.

Length of forewing: 22 mm. Expanse: 50 mm.

*Habitat.* Biagi, Mambare River, North-east New Guinea, 5,000 ft., April 1906 (A. S. Meek), 2 ♂♂.

100. *Pachychira excellens* spec. nov.

♂. Antennae rufous; head vinaceous mauve; thorax vinaceous mauve passing into cream-buff behind; abdomen creamy white suffused with mauve.

Forewing bright heliotrope-mauve with strong silvery gloss; a buff stigma, a mauve line from base along median to vein 4 where it is sharply angled upwards and reaches apex; below this line are a number of cloudings giving a watered silk appearance; a subapical duller more sooty mauve patch; there is a large projecting lappet from inner margin. —Hindwing white.

Length of forewing: 32 mm. Expanse: 73 mm.

*Habitat.* Prestea, 70 miles inland from Sekondi, Gold Coast.

101. *Pachychira olivaceofusca* spec. nov.

♀. Antennae brown; head and thorax olivaceous mauve-brown; abdomen wood-brown.

Forewing mauve-brown, some dark olivaceous buff markings and patches in cell and on subterminal one-third of wing; a deep chocolate rufous band runs from middle of inner margin to just below apex. —Hindwing wood-brown, paler on costal half.

Length of forewing: 26 mm. Expanse: 58 mm.

*Habitat.* Moyamba, Sierra Leone (Dr. Cator), 1 ♀.

102. *Scalmycauda bisecta* spec. nov.

♀. Antennae dark brown; head black-brown freckled with lavender-grey; tegulae black-brown; rest of thorax greyish cinnamon mauve; abdomen dark buff.

Forewing greyish cinnamon-mauve, costal two-fifths, a wedge-shaped band along postmedian line, and a patch behind tornus brownish chocolate; two oblique antemedian and an oppositely oblique postmedian line whitish, as are

the margins of a large hour-glass-shaped patch across cell and a quadrate one beyond; a subterminal row of chocolate and whitish lunulate dots.—Hindwing bright buff.

Length of forewing: 24 mm. Expanse: 55 mm.

*Habitat.* Sierra Leone (Major Bambridge), 1 ♀; Assaba River, Niger (Dr. Cator), 1 ♀.

103. *Moresa hieroglyphica* spec. nov.

♀. Antennae buff, pectinations amber-yellow; head buff tinged with rust-red; thorax dark grass-green; abdomen orange-buff, suffused with rufous at base.

Forewing dark grass-green; costal one-fourth of wing buff, apical one-fifth of this salmon-colour; from cell partly coalescing with orange-buff stigma there spreads a broad buff threefold band of crossed bars and digit-like bands to termen, this band is tinged or splashed with rufous, a buff line from it to inner margin and one to vein 6.—Hindwings buff suffused with salmon.

Length of forewing: 32 mm. Expanse: 69 mm.

*Habitat.* Teffé, Amazons, October 1907 (M. de Mathan), 1 ♀.

104. *Moresa obliquifascia* spec. nov.

♂. Antennae brownish buff; head bright buff; thorax deep grass-green; abdomen salmon-orange.

Forewing deep grass-green; costo-subcostal area buff, outer half washed with brown; an irregular broad oblique bar from middle of cell almost to tornus deeply notched at each end buff with sooty grey splashes.—Hindwing salmon-buff; abdominal one-third salmon-colour.

Length of forewing: 22 mm. Expanse: 50 mm.

*Habitat.* St. Jean de Maroni, French Guiana, 1 ♂.

105. *Moresa plumbeiplaga* spec. nov.

♀. Antennae black, pectinations amber-yellow; head buff; thorax deep green; abdomen brownish buff.

Forewing deep green, costal edge sooty black-brown; a large irregular oblique brownish leaden-grey patch from below middle of subcostal almost to termen between vein 4 and just below vein 2; a small white streak followed by some very minute white dots runs into wing from costa about one-fifth from apex.—Hindwing: costal one-third buff, rest of wing buffish salmon-pink.

Length of forewing: 24 mm. Expanse: 52 mm.

*Habitat.* St. Jean de Maroni, French Guiana, 1 ♀.

106. *Rosema klagesi* spec. nov.

♂. Antennae rufous brown; head and thorax deep green; abdomen crimson-scarlet.

Forewing dark grass-green, costo-subcostal area buff tinged with rufous and brown expanding from base of vein 6 and running thence to termen along this vein; a large oval pale olivaceous apple-green patch occupies the wing from termen to one-third from base and from inner margin to two-thirds the

space between veins 1 and 2.—Hindwing white, costal one-fifth salmon-crimson, abdominal one-fourth buff.

Length of forewing: 25 mm. Expanse: 56 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 4 ♂♂.

107. *Apella acutidivisa* spec. nov.

♂. Nearest to *neobule* Druce. Differs in forewing being entirely cinnamon-buff and the oblique band being single **not** double and deep maroon rufous.—Hindwing paler and rosy cinnamon.

*Habitat.* St. Jean de Maroni, French Guiana, 4 ♂♂.

108. *Apella ovalis* spec. nov.

♂♀. Antennae pale brown; head bright rufous; thorax tegulae bright rufous, rest of thorax cinnamon-buff; abdomen yellowish cinnamon-buff.

Forewing: basal half obliquely cinnamon-buff faintly strigillated with brown, outer half cinnamon-brown, an oblique dark rufous line from subcostal to tail of inner margin separating the two halves of the wing; just beyond the dividing rufous line is an almost circular large cinnamon-grey patch just below subcostal also faintly strigillated with brown; a cinnamon-buff half-moon-shaped patch on and below vein 1 in the centre of wing broadly edged with dark rufous.—Hindwing golden orange-buff.

Length of forewing: 16 mm. Expanse: 35 mm.

*Habitat.* San Esteban, Venezuela, June 1909 (S. M. Klages), 1 ♂ type; Caracas, Venezuela, 1 ♀.

109. *Maschane costipuncta* spec. nov.

♂. Antennae dark brown; head white suffused with brown; thorax tegulae orange-buff, rest of thorax violaceous brown; thorax rufous cinnamon suffused with smoky brown.

Forewing rufous cinnamon suffused with smoky violaceous brown less strongly on outer two-fifths, costa strongly bowed out beyond middle of wing, a powdering of white scales on and below costa; one-third from base a curved maroon-red patch runs into wing from costa.—Hindwing buffish cinnamon suffused with rufous cinnamon.

Some specimens are entirely rufous cinnamon without the smoky brown suffusion.

Length of forewing: 17 mm. Expanse: 39 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 3 ♂♂ type; St. Jean de Maroni, French Guiana, 3 ♂♂.

110. *Dylomia nubiloviolaceus* spec. nov.

♂♀. Antennae rufous; head buffy yellow washed with rufous; thorax tegulae buffy orange, rest grey-cinnamon-buff; abdomen rufous cinnamon-buff.

Forewing golden buff; costal and terminal area broadly maroon-purple, on the latter this colour is suddenly constricted between veins 5 and 7 and from vein 5 to tornus, bordered inwardly by a darker line; a double fan-shaped

brownish purple less strongly marked patch on each side of vein 1.—Hindwings buff washed with purplish rufous.

Length of forewing: 16 mm. Expanse: 36 mm.

*Habitat.* St. Jean de Maroni, French Guiana, 7 ♂♂ type; St. Laurent de Maroni (Le Moul't père), 1 ♂; Fonte Boa, Upper Amazons, June 1906 (S. M. Klages), 3 ♀♀; Aroewarwa Creek, Maroewym Valley, Surinam, May—June 1905 (S. M. Klages), 1 ♀.

#### 111. *Hapigia rufocinnamomia* spec. nov.

♂ ♀. Antennae rufous; head and thorax rufous cinnamon strongly suffused with purplish vinaceous; abdomen sooty grey-brown.

Forewing violaceous cinnamon with a buff antemedian bandlike area, and two postmedian buff patchlike areas, one near tornus above which is an orange spot, and one near apex; the whole wing crossed with numerous lines of coalescent lunules, some with olivaceous centres; an olivaceous stigma and olive subapical spot.—Hindwings smoky grey-brown.

Length of forewing: ♂ 37 mm., ♀ 47 mm. Expanse: ♂ 82 mm., ♀ 102 mm.

*Habitat.* Potaro, British Guiana, February 1908 (S. M. Klages), 3 ♂♂, 1 ♀ (♂ type); Omai, British Guiana, 1 ♂; Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 2 ♂♂.

#### 112. *Antaea pseudosmerinthus* spec. nov.

♂. At first sight resembles *Laothoe amurensis*. Antennae yellowish grey; head and thorax brown-grey suffused with vinaceous, distal half of patagia freckled with ash-grey, a crimson smear at back of thorax; abdomen dark grey-brown.

Forewing pinkish grey washed somewhat with vinaceous, two antemedian lines whitish edged outwardly with vinaceous, an ovoid vinaceous patch in cell ringed with darker vinaceous and then whitish; at the end of cell is a large looped line between costa and median vein inside vinaceous and outside whitish, the distal arm of the loop stained with scarlet; a postmedian bent sinuate whitish line edged outwardly with vinaceous; a postdiscal similar line concavely curved and slightly erenulate from costa to vein 4, strongly zigzag from vein 4 to vein 1, from above vein 4 to vein 1 this line is strongly stained with scarlet; the termen has a deep brown terminal line and is deeply serrated, from apex to vein 4 the wing is truncate and concave, from vein 4 to vein 1 it is obliquely cut off.—Hindwing dark sooty grey-brown.

Length of forewing: 43 mm. Expanse: 95 mm.

*Habitat.* Fonte Boa, Upper Amazons, May 1906 (S. M. Klages), 11 ♂♂ type; Santo Antonio do Javary, Upper Amazons, June 1907 (S. M. Klages), 1 ♂; Humayta, Rio Madeira, July—September 1906 (W. Hoffmanns), 1 ♂.

Some specimens have some sooty patches on the intranervular spaces between veins 2 and 4.

#### 113. *Chliora mediostriga* spec. nov.

♂. Antennae brown; head, thorax, and abdomen dark vinaceous cinnamon.

Forewing brownish orange-buff with numerous cross-lines of vinaceous cinnamon coalescent lunules in basal and outer thirds of the wing; central

one-third of wing with a broad band of vinaceous cinnamon narrowing to inner margin from median (this band is 11 mm. wide at costa and 5 mm. at inner margin, the outer edges are lunate-crenulate, and the band encloses two buff stigmata); a double subterminal line of black lunules and a black central striga from base to within one-fourth of termen along median and vein 4.—Hindwing pale vinaceous buffy cinnamon; fringe buff.

Length of forewing: 26 mm. Expanse: 58 mm.

*Habitat.* Tumatumari, British Guiana, December 1907 (S. M. Klages), 1 ♂ type; Codaljas, Upper Amazons, April 1907 (S. M. Klages), 1 ♂; Fonte Boa, Upper Amazons, November 1906 (S. M. Klages), 1 ♂.

#### 114. *Hapigiodes klagesi* spec. nov.

♂. Antennae dark brown; head and thorax violaceous pomegranate-red; abdomen isabel buffish washed with pale vinaceous.

Forewing purplish pomegranate-brown patched and suffused in several places with maroon and washed with violaceous pink; some sooty cloudy black patches beyond cell, and a dark stigma and a black cloud patch occupying most of wing below median round and above inner excision; a curved postmedian indistinct sooty hair-line with grey dots, a zigzag subterminal black hair-line.—Hindwing grey-buff.

Length of forewing: 26 mm. Expanse: 57 mm.

*Habitat.* Fonte Boa, Upper Amazons, July 1907 (S. M. Klages), 2 ♂♂.